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(54) WATER-BASED INK, INK JET RECORDING  
USING THE SAME AND EQUIPMENT

(57) Abstract:

PURPOSE: To obtain containing a specific polymer and an oil film-forming component, prevented from bleeding, excellent in color developability and recording stability, and realizing high-grade and high-resolution record because of giving sharp recorded images.

CONSTITUTION: This ink comprises (A) a coloring material (pref. an anionic coloring matter-forming dye such as a direct dye), (B) a liquid composition

containing a liquid medium, (C) a thermoreversible thickening polymer, and (D) an oil film-forming component (pref. a 8-20C saturated hydrocarbon such as nonane). The component C is pref. a water-soluble vinyl polymer containing, as constitutive unit, \*70wt.% of a nitrogen-contg. ring-bearing active hydrogen compound alkylene oxide adduct's vinylcarboxylic ester. The nitrogen-contg. ring-bearing active hydrogen compound is pref. a morpholine ring-bearing one, the alkylene oxide is pref. ethylene oxide, and the vinylcarboxylic acid is pref. (meth)acrylic acid or a derivative thereof.

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